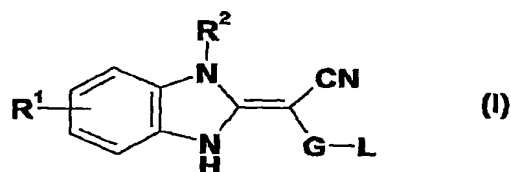


Claims

1. A benzimidazole acetonitrile according to formula (I)



5

as well as its tautomers, its geometrical isomers, its optically active forms as enantiomers, diastereomers and its racemate forms, as well as pharmaceutically acceptable salts thereof, wherein

G is a pyrimidinyl;

- 10 L is an amino group, or a 3-8 membered heterocycloalkyl, containing at least one heteroatom selected from N, O, S or L is an acylamino moiety;

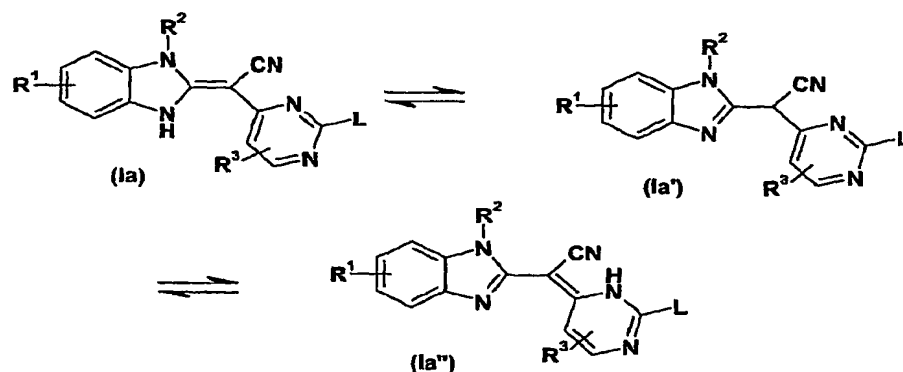
R¹ is selected from the group comprising or consisting of hydrogen, sulfonyl, amino, carboxy, amino carbonyl, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl or C₁-C₆-alkoxy, aryl, halogen, cyano or hydroxy;

- 15 R² is selected from the group comprising or consisting of hydrogen, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, or C₁-C₆-alkoxy.

2. The benzimidazole acetonitrile according to claim 1, wherein R¹ is H or C₁-C₃ alkyl.
3. The benzimidazole acetonitrile according to any of claims 1 or 2, wherein R² is a C₁-C₃ alkyl.

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4. The benzimidazole acetonitrile according to any of claims 1 to 3, having any of the formulae



wherein  $R^1$  is as above defined, and

- 5  $R^3$  is selected from the group comprising or consisting of hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl, or  $C_1$ - $C_6$ -alkoxy;
- L is an amino group of the formula  $-NR^5R^6$  wherein  $R^5$  and  $R^6$  are each independently from each other H,  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl,  $C_2$ - $C_6$ -alkynyl,  $C_1$ - $C_6$ -alkoxy, aryl, heteroaryl, saturated or unsaturated 3-8-membered cycloalkyl, 3-8-membered heterocycloalkyl,  $C_1$ - $C_6$ -alkyl aryl,  $C_1$ - $C_6$ -alkyl heteroaryl,  $C_1$ - $C_6$ -alkenyl aryl,  $C_1$ - $C_6$ -alkenyl heteroaryl,  $C_1$ - $C_6$ -alkynyl aryl,  $C_1$ - $C_6$ -alkynyl heteroaryl,  $C_1$ - $C_6$ -alkyl cycloalkyl,  $C_1$ - $C_6$ -alkyl heterocycloalkyl,  $C_1$ - $C_6$ -alkenyl cycloalkyl,  $C_1$ - $C_6$ -alkenyl heterocycloalkyl,  $C_1$ - $C_6$ -alkynyl cycloalkyl,  $C_1$ - $C_6$ -alkynyl heterocycloalkyl, or
- 15  $R^5$  and  $R^6$  may form a ring together with the nitrogen to which they are bound.
5. The benzimidazole acetonitrile according to any of the preceding claims, wherein  $R^5$  is hydrogen or a methyl or ethyl or propyl group and  $R^6$  is selected from the group consisting of H,  $(C_1-C_{10})$ -alkyl,  $C_1$ - $C_6$  alkyl-aryl,  $C_1$ - $C_6$ -alkyl-heteroaryl, cycloalkyl,

heterocycloalkyl, aryl or heteroaryl and 4-8 membered saturated or unsaturated cycloalkyl.

6. The benzimidazole acetonitrile according to any of the preceding claims, wherein R<sup>5</sup> is H and R<sup>6</sup> is selected from the group consisting of C<sub>1</sub>-C<sub>6</sub> alkyl, 3-8 membered cycloalkyl, 3-8 membered heterocycloalkyl, heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkyl heterocycloalkyl.
7. The benzoxazole acetonitrile according to any of claims 1 to 3, wherein L is an acylamino moiety of the formula -NR<sup>5</sup>C(O)R<sup>6</sup> wherein R<sup>5</sup> and R<sup>6</sup> are each independently from each other H, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, aryl, heteroaryl, saturated or unsaturated 3-8-membered cycloalkyl, 3-8-membered heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkenyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkenyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkynyl aryl, C<sub>1</sub>-C<sub>6</sub>-alkynyl heteroaryl, C<sub>1</sub>-C<sub>6</sub>-alkyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkenyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkenyl heterocycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkynyl heterocycloalkyl.
8. The benzimidazole acetonitrile according to any of the preceding claims selected from the group consisting of :
 

(2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{{[3-(1H-pyrazol-1-yl)propyl]amino}pyrimidin-4-yl})acetonitrile

(2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(5-methyl-2-{{[3-(1H-pyrazol-1-yl)propyl]amino}pyrimidin-4-yl})acetonitrile

(2Z)-[2-(cyclobutylamino)-5-methylpyrimidin-4-yl](1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile

(2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(5-methyl-2-{{[3-(2-oxopyrrolidin-1-yl)propyl]amino}pyrimidin-4-yl})acetonitrile

- (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{{3-(2-oxopyrrolidin-1-yl)propyl}amino}pyrimidin-4-yl)acetonitrile
- (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{{3-(1H-1,2,4-triazol-1-yl)propyl}amino}pyrimidin-4-yl)acetonitrile
- 5 (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(5-methyl-2-{{3-(1H-1,2,4-triazol-1-yl)propyl}amino}pyrimidin-4-yl)acetonitrile
- [2-(cyclopentylamino)-5-methylpyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile
- (2Z)-(2-{{3-(2-oxopyrrolidin-1-yl)propyl}amino}pyrimidin-4-yl)(1-propyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile
- 10 (1-ethyl-1H-benzimidazol-2-yl){5-methyl-2-[(2-pyridin-3-ylethyl)amino]pyrimidin-4-yl}acetonitrile
- (2Z)-[2-(cyclobutylamino)pyrimidin-4-yl](1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile
- 15 (2Z)-[2-(cycloheptylamino)-5-methylpyrimidin-4-yl](1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile
- [2-(cyclopentylamino)pyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile
- 1,3-dihydro-2H-benzimidazol-2-ylidene(5-methyl-2-{{3-(2-oxopyrrolidin-1-yl)propyl}amino}pyrimidin-4-yl)acetonitrile
- 20 (2Z)-(1-cyclobutyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{{3-(2-oxopyrrolidin-1-yl)propyl}amino}pyrimidin-4-yl)acetonitrile

- (1-ethyl-1H-benzimidazol-2-yl){2-[(2-pyridin-3-ylethyl)amino]pyrimidin-4-yl}acetonitrile
- (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)[2-(isobutylamino)-5-methylpyrimidin-4-yl]acetonitrile
- 5 (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{[2-(1H-imidazol-4-yl)ethyl]amino}pyrimidin-4-yl)acetonitrile
- (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)[2-(isobutylamino)pyrimidin-4-yl]acetonitrile
- [2-(cyclopropylamino)pyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile
- 10 [2-({2-[6-(dimethylamino)pyridin-3-yl]ethyl}amino)pyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile
- (1-ethyl-1H-benzimidazol-2-yl)(2-{[2-(1H-1,2,4-triazol-1-yl)ethyl]amino}pyrimidin-4-yl)acetonitrile
- (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{[2-(1H-imidazol-4-yl)ethyl]amino}-5-methylpyrimidin-4-yl)acetonitrile
- 15 [2-({2-[6-(dimethylamino)pyridin-3-yl]ethyl}amino)-5-methylpyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile
- (2Z)-[2-(cycloheptylamino)pyrimidin-4-yl](1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile
- 20 [2-(cyclopropylamino)-5-methylpyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile

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(1-ethyl-1H-benzimidazol-2-yl){2-[(2-pyridin-2-ylethyl)amino]pyrimidin-4-yl}acetonitrile

[2-(cyclopentylamino)-5-methylpyrimidin-4-yl](1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile

5 [2-(cyclohexylamino)pyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile

(2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{[2-(1H-indol-3-yl)ethyl]amino}-5-methylpyrimidin-4-yl)acetonitrile

(1-ethyl-1H-benzimidazol-2-yl){5-methyl-2-[(2-pyridin-2-ylethyl)amino]pyrimidin-4-yl}acetonitrile

10 {2-[(2-ethoxyethyl)amino]pyrimidin-4-yl}(1-ethyl-1H-benzimidazol-2-yl)acetonitrile

(1-ethyl-1H-benzimidazol-2-yl){5-methyl-2-[(1-methylbutyl)amino]pyrimidin-4-yl}acetonitrile

(1-ethyl-1H-benzimidazol-2-yl)[2-(methylamino)pyrimidin-4-yl]acetonitrile

15 (1-ethyl-1H-benzimidazol-2-yl)(5-methyl-2-{[2-(1H-pyrazol-1-yl)ethyl]amino}pyrimidin-4-yl)acetonitrile

1H-benzimidazol-2-yl{5-methyl-2-[(2-pyridin-3-ylethyl)amino]pyrimidin-4-yl}acetonitrile

(2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)(2-{[2-(1H-imidazol-1-yl)ethyl]amino}-5-methylpyrimidin-4-yl)acetonitrile

20 1H-benzimidazol-2-yl{2-[(2-pyridin-3-ylethyl)amino]pyrimidin-4-yl}acetonitrile

(1-ethyl-1H-benzimidazol-2-yl){2-[(1-methylbutyl)amino]pyrimidin-4-yl}acetonitrile

{2-[(cyclohexylmethyl)amino]-5-methylpyrimidin-4-yl}(1-ethyl-1H-benzimidazol-2-yl)acetonitrile

1H-benzimidazol-2-yl[2-(cyclopentylamino)pyrimidin-4-yl]acetonitrile

5 (1-ethyl-1H-benzimidazol-2-yl){6-methyl-2-[(2-pyridin-3-ylethyl)amino]pyrimidin-4-yl}acetonitrile

1H-benzimidazol-2-yl[2-(cyclopropylamino)pyrimidin-4-yl]acetonitrile

[2-(cyclopentylamino)-6-methylpyrimidin-4-yl](1-ethyl-1H-benzimidazol-2-yl)acetonitrile

10 {2-[(cyclohexylmethyl)amino]pyrimidin-4-yl}(1-ethyl-1H-benzimidazol-2-yl)acetonitrile

(1-ethyl-1H-benzimidazol-2-yl){6-[(2-pyridin-3-ylethyl)amino]pyrimidin-4-yl}acetonitrile

(1-ethyl-1H-benzimidazol-2-yl){2-[(3-pyrrolidin-1-ylpropyl)amino]pyrimidin-4-yl}acetonitrile

15 (1-ethyl-1H-benzimidazol-2-yl)[2-(4-ethylpiperazin-1-yl)-5-methylpyrimidin-4-yl]acetonitrile

(1-ethyl-1H-benzimidazol-2-yl){2-[(2-furylmethyl)amino]-5-methylpyrimidin-4-yl}acetonitrile

20 (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene){5-methyl-2-[(1-methylpiperidin-4-yl)amino]pyrimidin-4-yl}acetonitrile

(2Z)-[2-(cyclohexylamino)-5-methylpyrimidin-4-yl](1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile

(2Z)-[2-(ethylamino)-5-methylpyrimidin-4-yl](1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile

[2-(cyclopentylamino)-5-methylpyrimidin-4-yl](1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile

5 (2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)[5-methyl-2-(piperidin-4-ylamino)pyrimidin-4-yl]acetonitrile

(2Z)-(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene){5-methyl-2-[(2-piperidin-1-ylethyl)amino]pyrimidin-4-yl} acetonitrile

10 N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-4-(4-methylpiperazin-1-yl)-4-oxobutanamide

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]pyrimidin-2-yl}-4-(4-methylpiperazin-1-yl)-4-oxobutanamide

15 (1R,5R,7R)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-6,8-dioxo-3-azabicyclo[3.2.1]octane-7-carboxamide

(1S,5S,7S)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-6,8-dioxo-3-azabicyclo[3.2.1]octane-7-carboxamide

20 (1S,4S,5S,7R)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-4-methyl-6,8-dioxo-3-azabicyclo[3.2.1]octane-7-carboxamide



- (1S,4R,5S,7R)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-4-methyl-6,8-dioxo-3-azabicyclo[3.2.1]octane-7-carboxamide
- 5 N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}piperazine-2-carboxamide
- (4S)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-1,3-thiazolidine-4-carboxamide
- (4R)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-1,3-thiazolidine-4-carboxamide
- 10 N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-5-oxo-L-prolinamide
- 4-tert-butyl 1-(9H-fluoren-9-ylmethyl) 2-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]carbonyl]piperazine-1,4-dicarboxylate
- 15 tert-butyl (4S)-4-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]carbonyl]-1,3-thiazolidine-3-carboxylate
- tert-butyl (2S)-2-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]carbonyl]-5-oxopyrrolidine-1-carboxylate
- 20 tert-butyl (4R)-4-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]carbonyl]-1,3-thiazolidine-3-carboxylate

2-(1-acetylpiperidin-4-yl)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}acetamide

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-4-methylmorpholine-2-carboxamide

5 4-acetyl-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}morpholine-2-carboxamide

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-4-[(4-methylpiperazin-1-yl)methyl]benzamide

10 tert-butyl 3-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]carbonyl]piperidine-1-carboxylate

tert-butyl 4-[2-(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]-2-oxoethyl]piperidine-1-carboxylate

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}morpholine-2-carboxamide

15 N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-2-piperidin-4-ylacetamide

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}piperidine-3-carboxamide

20 tert-butyl 2-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]carbonyl]morpholine-4-carboxylate

N-[3-(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino]-3-oxopropyl]benzamide

tert-butyl [2-({4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}amino)-2-oxoethyl]methylcarbamate

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-1-methylpiperidine-3-carboxamide

5 N-1-~{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-N-2-~methylglycinamide

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}pyrrolidine-3-carboxamide

10 tert-butyl 3-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}amino)carbonyl]pyrrolidine-1-carboxylate

(2S)-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-2,5-dihydro-1H-pyrrole-2-carboxamide

15 tert-butyl (2S)-2-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}amino)carbonyl]-2,5-dihydro-1H-pyrrole-1-carboxylate

N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-2-(2-methoxyphenyl)acetamide

1-acetyl-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}piperidine-4-carboxamide

20 N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-1-methylpiperidine-4-carboxamide

4-amino-N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}butanamide

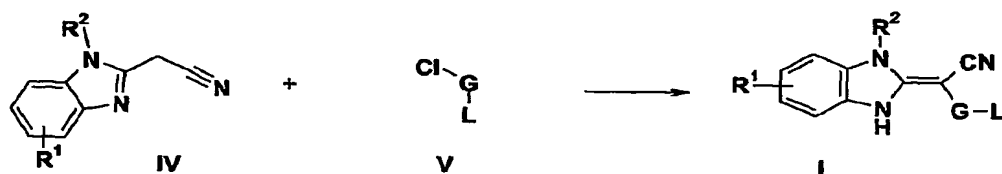
- tert-butyl 4-[(4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl)amino)carbonyl]piperidine-1-carboxylate
- N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}piperidine-4-carboxamide
- 5 tert-butyl [4-({4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl} amino)-4-oxobutyl]carbamate
- N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}cyclopentanecarboxamide
- 10 N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-4-(4-methylpiperazin-1-yl)butanamide
- N~1~-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-N~3~,N~3~-dimethyl-beta-alaninamide
- N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-4-(dimethylamino)butanamide
- 15 (2Z)-(2-amino-5-methylpyrimidin-4-yl)(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)acetonitrile
- N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-2-morpholin-4-ylacetamide
- 20 N~2~-benzyl-N~1~-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}glycinamide
- N-{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-2-(1,1-dioxidothiomorpholin-4-yl)acetamide

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N~1~{4-[(Z)-cyano(1-ethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)methyl]-5-methylpyrimidin-2-yl}-N~2~-formylglycinamide

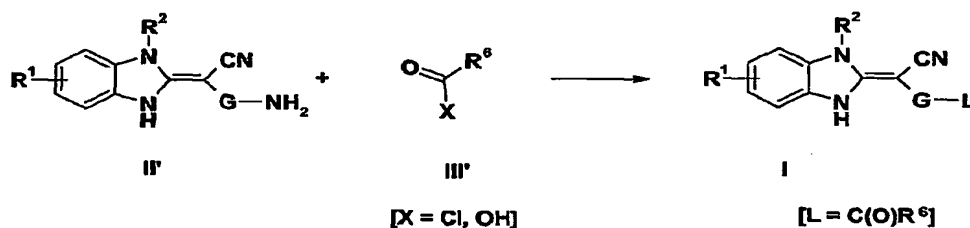
9. A benzimidazole acetonitrile according to any of the preceding claims for use as a medicament.
- 5 10. Use of a benzimidazole acetonitrile according to any of claims 1 to 8 in the preparation of a medicament for the prevention and/or treatment of metabolic disorders mediated by insulin resistance or hyperglycemia, comprising diabetes type II, inadequate glucose tolerance, insulin resistance, obesity, polycystic ovary syndrome (PCOS).
- 10 11. Use of an benzimidazole acetonitrile according to claim 9 wherein the disease is diabetes type II.
12. A pharmaceutical composition containing a benzimidazole acetonitrile according to any of the claims 1 to 8 and a pharmaceutically acceptable carrier, diluent or excipient thereof.
- 15 13. A composition according to claim 12, further comprising at least one supplementary drug selected from the group consisting of insulin, aldose reductase inhibitors, alpha-glucosidase inhibitors, sulfonyl urea agents, biguanides, thiazolidines, PPARs agonists, GSK-3 inhibitors.
- 20 14. Composition according to claim 13 wherein said supplementary drug is selected from the group consisting of a rapid acting insulin, an intermediate acting insulin, a long acting insulin, a combination of intermediate and rapid acting insulins, Minalrestat, Tolrestat, Sorbinil, Methosorbinil, Zopolrestat, Epalrestat, Zenarestat, Imirestat, Ponalrestat, ONO-2235, GP-1447, CT-112, BAL-ARI 8, AD-5467, ZD5522, M-16209, NZ-314, M-79175, SPR-210, ADN 138, or SNK-860, Miglitol, Acarbose,
- 25 Glipizide, Glyburide, Chlorpropamide, Tolbutamide, Tolazamide, or Glimepiride.

15. A method of preparing a benzimidazole acetonitrile of formula (I) according to any of the claims 1 to 8, comprising the following step:

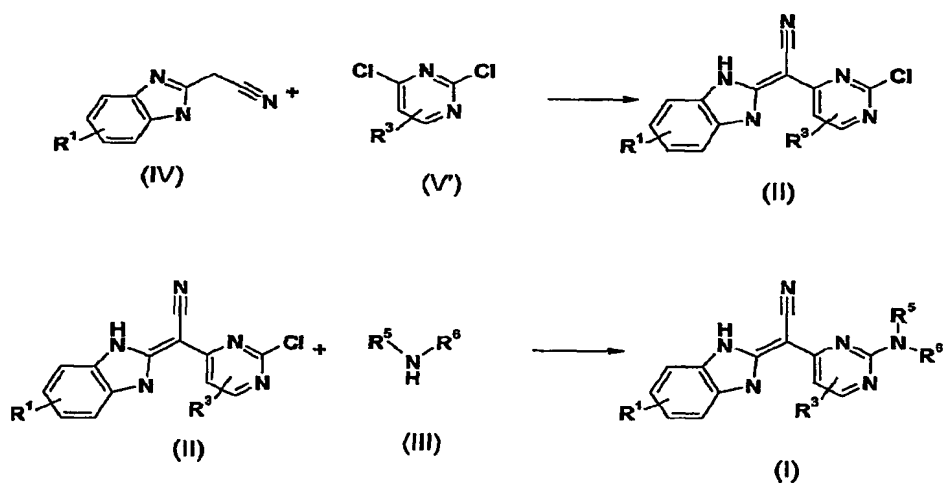


wherein  $R^1$ ,  $R^2$ , G, L are as above described.

- 5 16. A method of preparing a benzimidazole acetonitrile of formula (I) according to any of the claims 1 to 8, comprising the following step:



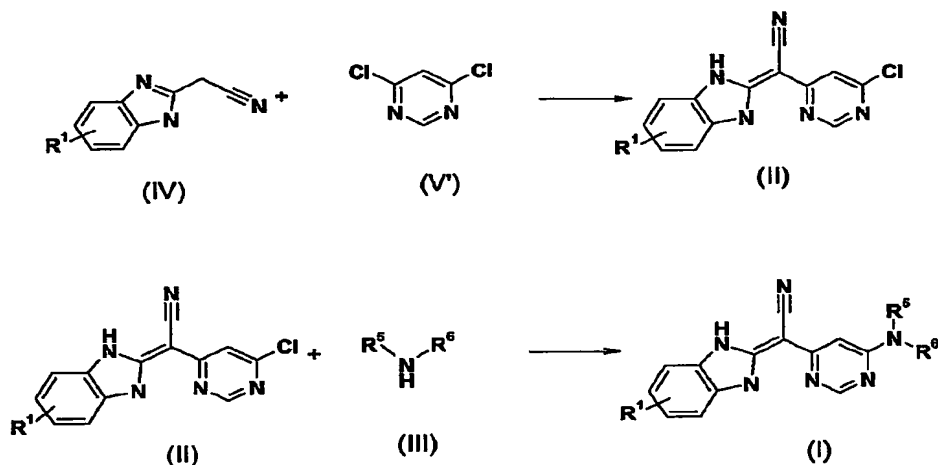
17. A method according to claim 15 or 16, comprising the following steps :



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wherein  $R^1$ ,  $R^3$  and  $R^4$  are as above defined.

17. A method according to claim 15, comprising the following steps :



5 wherein  $R^1$ ,  $R^3$  and  $R^4$  are as above defined.

18. An intermediate compound of formula (II), selected from the group consisting of :  
 1,3-benzimidazol-2(3H)-ylidene(2-chloro-6-methylpyrimidin-4-yl)acetonitrile  
 1,3- benzimidazol -2(3H)-ylidene(2-chloro-6-methylpyrimidin-4-yl)acetonitrile  
 1,3- benzimidazol -2(3H)-ylidene(6-chloropyrimidin-4-yl)acetonitrile